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75	90 02/17/2006		EXAM	INER
McGuire Woo	ds LLP		AMINI, J	AVID A
1750 Tysons Bo	ulevard			
Suite 1800		•	ART UNIT	PAPER NUMBER
McLean, VA 22102			2672	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/917,910	NAH ET AL.
		Examiner	Art Unit
		Javid A. Amini	2672
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tinuity rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on 23 No. This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
5)□ 6)፟⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction	vn from consideration. r election requirement. r. epted or b) objected to by the lidrawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the lidrawing(s)	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
2) 🔲 Notice 3) 🔯 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 9/16/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Page 2

Response to Arguments

Applicant's arguments filed 11/23/2005 have been fully considered but they are not persuasive.

Applicant requires to point out on page 7 at first paragraph, where has claim 1 been amended?

Applicant on page 7, in reply, to the Examiner's suggestions regarding type of images, discloses that figs. 1, 2 and 4 illustrate a three-dimensional subject.

Examiner's reply: there is no third dimension illustrated in figs. 1, 2 and 4.

Applicant on page 9 regarding claims 1 and 5 argues that the reference does not teach the claim language of "the first image information is converted into "the second image information".

Examiner's reply: the reference Nishioka at col. 8, lines 16-24 teaches the endoscope can be flexible or rigid, and can utilize an optical fiber or a charged coupled device (CCD) camera. Furthermore, rather then being passed through an instrument channel, in other embodiments the probe can be connected to the endoscope and extended telescopically to contact the object being viewed.

Applicant on page 10 argues that at page 3 of the office action disclosed that Nishioka does not disclose the claimed feature.

Examiner's reply: The statement above cannot be found in mentioned office action.

Applicant on page 10 argues that the Examiner digresses into commentary about voxels and two-dimensional images.

Examiner's reply: Encourages Applicant to schedule an interview regarding the claim invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 rejected under 35 U.S.C. 103(a) as being <u>unpatentable over Nishioka and further in view of Jones et al.</u> hereinafter refers as Jones.

1. Claim 1.

Nishioka determines the real size of an object during endoscopy. Nishioka in fig. 1 illustrates a real size display (i.e. the monitor 26), see following claim languages: "A real size display system, comprising". Nishioka in fig. 1 illustrates a rectangular shape panel that can be flexible or rigid, and can utilize an optical fiber or a charged coupled device (CCD) camera, see col. 8, lines 16-24. Nishioka is silence about the terms that Applicant uses in the claim as "a plurality of dots for displaying image information and providing information on a size of the dots", it would have been obvious to an ordinary person in the art to recognize the actual measurement of the object must be incorporated with a plurality of pixels or dots on the screen. However Jones as a second reference at paragraph 0091 teaches a voxel, i.e. a voxel is a volume element, representing a colour value in three dimensional space, i.e. analogous to a pixel, which represents 2D image data. Both references cover at least 2-dimensional image, and Applicant does not

Art Unit: 2672

specify the type of image in the claim invention. The claim invention claims "an image converter that receives first image information, converts the first image information into second image information and outputs the second information to the flat panel display unit", Nishioka in fig. 1 illustrates a panel with a screen area, which can be connected to a camera id., the camera's image considered as the first image that Applicant claims, and in fig. 2a, the electronic measurement grid can be a computer-generated scale visually overlaid on image (i.e. similar to claim's language of the second image) indicating a grid spacing on the image corresponding to an actual size for the object, e.g., 10 mm. See following steps: "wherein the first image information includes measurement information on an actual size of an object described by the first image information". Nishioka in fig. 2A illustrates that the first image converted into the second image already. Applicant does not specify the type of data conversion. The following steps "wherein the first image information is converted into the second image information based on the dot size information received from the flat panel display unit" don not provide limitations of min and max size of the panel display, e.g. if a person skill in the art has a display size of 1 by 1 inch, how can he display the real size of an apple with at least 2 inches diameter? Or he does not display the real size image, instead displays just the information data e.g. distance, color, length, width and etc., for the real size image. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Jones into Nishioka in order to enable to have information based on the dot size of the panel display.

2. Claim 2.

"The real size display system according to claim 1, wherein the first image information includes magnification, horizontal synchronization signal, vertical synchronization signal, clock and

Application/Control Number: 09/917,910

Art Unit: 2672

measured distance data", The following arrangements are obvious, because image information should have magnification, horizontal synchronization signal, vertical synchronization signal, clock and measured distance data. Applicant should be more explicit about mentioned information rather than using general terms.

Page 5

Claim 3. 3.

"The real size display system according to claim 1, wherein the flat panel display system includes a controller that enables magnification adjustment of the second image information, thereby enabling real size display as desired by a user", Nishioka in col. 8, lines 36-49 teaches the adjustment of magnification of the image.

4. Claim 4.

"The real size display system according to claim 1, wherein the image converter extracts an R component, G component, and B component from the first image information, then converts the extracted R, G, B image signals based on the dot size information provided from the display unit, and outputs the second image information to the flat panel display unit", Applicant should be more explicit about R component, G component, and B component, because it is well known to a person skilled in the art that the opacity is the amount of light passes thru an object pixel. And the brightness/intensity/luminance is defined as quantity of light. The light is combination of R component, G component, and B component. Nishioka in table 4 discloses the actual size is expressed as differences between band colors (i.e. green, red, yellow, blue, red-white).

5. Claim 5.

See rejection of claim 1.

6. Claim 6.

Application/Control Number: 09/917,910

Art Unit: 2672

"The real size display system according to claim 5, wherein the first image information includes magnification, horizontal synchronization signal, vertical synchronization signal, clock and measured distance data", see rejection of claim 2.

Page 6

7. Claim 7.

"The real size display system according to claim 5, wherein the flat panel display system includes a controller that enables magnification adjustment of the second image information. thereby enabling real size display as desired by the user", See rejection of claim 3.

8. Claim 8.

"The real size display system according to claim 5, wherein the image converter extracts an R component, G component, and B component from the first image information, then converts the extracted R, G, B image signals based on the dot size information provided from the display unit. and outputs the second image information to the flat panel display unit", see rejection of claim 4.

9. Claim 9.

"The real size display system according to claim 1, wherein a real size of a subject of the first image information and the second image information is measured to generate the measurement information". See rejection of claim 1.

10. Claim 10.

"wherein the flat panel display unit uses the second image information to display an image of the subject and a size of the displayed subject is the real size of the subject, see rejection of claim 1.

11. Claim 11.

Art Unit: 2672

"The real size display system is according to claim 5, wherein a distance between the subject and the image of the subject is measured to generate the measurement information". See rejection of claim 1.

12. Claim 12.

"The real size display system according to claim 10, wherein the flat panel display unit uses the second image information to display a second image of the subject and a size of the displayed subject is the real size of the subject". See rejection of claim 1.

13. Claims 13-14.

"wherein the flat panel display unit comprises at least one of a button, a switch, a touch-operated icon on a screen of the flat panel display for enabling real-size display operation". Jones in fig. 36 steps 762, 764, 776 and 784 illustrates these switches (i.e. software), and Jones at paragraph 0092 teaches selecting an option by a user using an input device such as a mouse (i.e. similar to a touch-operated icon on a screen).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 09/917,910

Art Unit: 2672

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Page 8

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffen J. Bries Javid A Amini Examiner

MARY EXAMINER Art Unit 2672

Javid Amini